

Questions/Voting Results and Bibliography

ELECTRORETINOGRAPHY CAC MEETING**VOTING QUESTIONS**

For each voting question, please use the following scale identifying your level of confidence - with a score of 1 being low or no confidence and 5 representing high confidence.

1 — 2 — 3 — 4 — 5
Low Confidence | Intermediate | High Confidence

Using this scale, please rate your confidence in the clinical literature for each question and cite the literature and rationale for your score. A score of ≥ 2.5 is considered intermediate confidence that there is robust clinical literature to support the question.

1. What is your level of confidence there is robust clinical evidence that supports the use of pattern electroretinography (PERG) in the diagnosis and/or management of glaucoma?

Voting results = 4

2. Do you feel there is robust clinical evidence that supports the role of other forms of electroretinography (ERG) in glaucoma management? Yes or No **YES**

If yes, what form of ERG and what supporting evidence is the basis? See transcript for discussion

Voting results = 4 that there is evidence to support additional roles

3. What is your level of confidence there is robust clinical evidence to support the role of PERG in retinal disease diagnosis and/or management?

Voting results = 1.6

BIBLIOGRAPHY

1. Jampel HD, Singh K, Lin SC, et al. Assessment of visual function in glaucoma: a report by the American Academy of Ophthalmology. *Ophthalmology*. 2011;118(5):986-1002.
2. Senger C, Moreto R, Watanabe SE, Matos AG, Paula JS. Electrophysiology in Glaucoma. *J Glaucoma*. 2020;29(2):147-153.
3. Bach M UA, Philippin H. Pattern ERG as an early glaucoma indicator in ocular hypertension: a long-term, prospective study. *Invest Ophthalmol Vis Sci*. 2006(47):4881-4887.
4. Bode S JT, Bach M. Pattern electroretinogram in glaucoma suspects: new findings from a longitudinal study. *Invest Ophthalmol Vis Sci*. 2011;52:4300-4306.
5. Ventura LM GI, Feuer WJ, Porciatti V. Pattern electroretinogram progression in glaucoma suspects. *J Glaucoma*. 2013;22:219-225.
6. Tiryaki Demir S, Oba ME, Erdogan ET, et al. Comparison of Pattern Electroretinography and Optical Coherence Tomography Parameters in Patients with Primary Open-Angle Glaucoma and Ocular Hypertension. *Turk J Ophthalmol*. 2015;45(6):229-234.
7. Wilsey L, Gowrisankaran S, Cull G, Hardin C, Burgoyne CF, Fortune B. Comparing three different modes of electroretinography in experimental glaucoma: diagnostic performance and correlation to structure. *Doc Ophthalmol*. 2017;134(2):111-128.
8. Jafarzadehpour E, Radinmehr F, Pakravan M, Mirzajani A, Yazdani S. Pattern electroretinography in glaucoma suspects and early primary open angle glaucoma. *J Ophthalmic Vis Res*. 2013;8(3):199-206.
9. Jung K, Jeon, S, Kim, YC, and Park, CK. Comparison of pattern electroretinograms of glaucoma
10. Mavilio A, Sisto, D, Ferreri, P, Dammacco, R, and Alessio, G. RE-PERG, a new paradigm for glaucoma diagnosis, in myopic eyes. *Clin Ophthalmol*. 2019;13:1315-1132.
11. Elgohary A, Elbedewy, HA, Saad, HA, and Eid, TM. Pattern electroretinogram changes in patients with primary open-angle glaucoma in correlation with visual field and optical coherence tomography changes. *Eur J Ophthalmol* 2019.
12. Strakhov V, Yartsev, AV, Alekseev, VV, Klimova, ON, Kazanova, SY, and Voronin, NA. Structural and functional changes in the retinal layers in patients with primary glaucoma and possible means of retinoprotection. *Vestn Oftalmol*. 2019;135(2):70-82.
13. Kuryшева N, Maslova, EV, Zolnikova, IV, Fomin, AV, and Lagutin, MB. A comparative study of structural, functional and circulatory parameters in glaucoma diagnostics. *PLoS One* 2018;13(8):e0201599.
14. Lai TY, Chan W-M, Lai RY, Ngai JW, Li H, Lam DS. The clinical applications of multifocal electroretinography: a systematic review. *Surv Ophthalmol*. 2007;52(1):61-96.